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FILE 'HOME' ENTERED AT 11:18:16 ON 12 APR 2010

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.66       0.66

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FILE COVERS 1907 - 12 Apr 2010  VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010  (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Feb 2010

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reclassification data for the first quarter of 2010.

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substance identification.

=> s RNA or ribonucleic

        393838 RNA
        195494 RIBONUCLEIC
L1      475087 RNA OR RIBONUCLEIC

=> s lithium

L2      378525 LITHIUM

=> s binding or extraction or purification or separation or isolation

       1144661 BINDING
        207869 EXTRACTION
        388983 PURIFICATION
        252971 SEPARATION
        300779 ISOLATION
L3     2207845 BINDING OR EXTRACTION OR PURIFICATION OR SEPARATION OR ISOLATION

=> s l1 and l2 and l3

L4          289 L1 AND L2 AND L3

=> s l4 and (PY<2002 or AY<2002 or PRY<2002)
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       4243473 AY<2002
       3712015 PRY<2002
L5          124 L4 AND (PY<2002 OR AY<2002 OR PRY<2002)

=> file stnguide

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FULL ESTIMATED COST                                     0.14       3.71

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FILE LAST UPDATED: 11 Apr 2010  (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Feb 2010

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2010.

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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s guanidinium or thiocyanate or isothiocyanate

          7524 GUANIDINIUM
         42962 THIOCYANATE
         29807 ISOTHIOCYANATE
L6       77588 GUANIDINIUM OR THIOCYANATE OR ISOTHIOCYANATE
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=> s l5 not l6

L7          89 L5 NOT L6

=> file stnguide

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FILE 'STNGUIDE' ENTERED AT 11:21:43 ON 12 APR 2010
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  9, 2010 (20100409/UP).

=> file hcaplus
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FULL ESTIMATED COST                                     0.14       6.76

FILE 'HCAPLUS' ENTERED AT 11:23:10 ON 12 APR 2010
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FILE COVERS 1907 - 12 Apr 2010  VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010  (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Feb 2010

HCAplus now includes complete International Patent Classification (IPC)
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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s (solid support) or (solid phase)

       1258254 SOLID
        603476 SUPPORT
         10289 SOLID SUPPORT
                (SOLID(W)SUPPORT)
       1258254 SOLID
       2087139 PHASE
        125173 SOLID PHASE
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                (SOLID(W)PHASE)
L8      132436 (SOLID SUPPORT) OR (SOLID PHASE)

=> s l7 and l8

L9           6 L7 AND L8

=> file stnguide

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  9, 2010 (20100409/UP).

=> d l9 1-6 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y



L9   ANSWER 1 OF 6  HCAPLUS  COPYRIGHT 2010 ACS on STN
TI   Compositions and methods for using a solid support to
     purify RNA
AB   The invention concerns a method for purifying substantially pure and
     undegraded RNA from biol. material comprising RNA,
     comprising the steps of: (a) mixing the biol. material with an RNA
     Lysing/ Binding Solution buffered at a pH of greater than about 7,
     the RNA Lysing/Binding Solution comprising an RNA
     -complexing salt; (b) contacting the mixture to a solid
     support such that nucleic acids comprising substantially
     undegraded RNA in the mixture preferentially bind to the
     solid support; (c) washing the solid
     support with a series of RNA wash solns. to remove biol.
     materials other than bound nucleic acids comprising substantially
     undegraded RNA, wherein the series of wash solns. comprises a
     first wash comprising alc. and an RNA-complexing salt at a
     concentration of at least 1 M and a second wash comprising an alc., buffer and
an
     optional chelator; and (d) preferentially eluting the bound substantially
     undegraded RNA from the solid support with
     an RNA Elution Solution in order to obtain substantially pure and
     undegraded RNA.  Reagents, methods and kits for the purification of
     RNA from biol. materials are provided.
AN   2004:80382  HCAPLUS
DN   140:107795
TI   Compositions and methods for using a solid support to
     purify RNA
IN   Bair, Robert Jackson; Heath, Ellen M.; Meehan, Heather; Paulsen, Kim
     Elayne; Wages, John M.
PA   USA
SO   U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 974,798.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 3
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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PI   US 20040019196       A1    20040129    US 2003-418194         20030416 <--
     US 7148343           B2    20061212
     US 20030073830       A1    20030417    US 2001-974798         20011012 <--
     CA 2463317           A1    20030424    CA 2001-2463317        20011012 <--
     AU 2002211719        A1    20030428    AU 2002-211719         20011012 <--
     AU 2002211719        B2    20070614
     EP 1438426           A1    20040721    EP 2001-979794         20011012 <--
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            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2005505305        T     20050224    JP 2003-536461         20011012 <--
     JP 3979996           B2    20070919
     AU 2004233035        A1    20041104    AU 2004-233035         20040415 <--
     AU 2004233035        B2    20090723
     CA 2522446           A1    20041104    CA 2004-2522446        20040415
     WO 2004094635        A2    20041104    WO 2004-US12033        20040415
     WO 2004094635        A3    20041216
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            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
            NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
            TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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            SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
            TD, TG
     EP 1618194           A2    20060125    EP 2004-760008         20040415
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     JP 2006523463        T     20061019    JP 2006-513124         20040415
     US 20050032105       A1    20050210    US 2004-909724         20040802 <--
     US 20070043216       A1    20070222    US 2006-589364         20061030 <--
PRAI US 2001-974798       A2    20011012  <--
     AU 2002-211719       A3    20011012  <--
     WO 2001-US32073      W     20011012  <--
     US 2003-418194       A     20030416
     WO 2004-US12033      W     20040415
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G   1     THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT  56    THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L9 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads

AB The invention includes reagents and methods for the isolation of nucleic acids. The reagents described herein contain a nucleic acid precipitating agent and a solid phase carrier. The reagents can optionally be formulated to cause the lysis of a cell. These reagents can be used to isolate a target nucleic acid mol. from a cell or a solution containing a mixture of different size nucleic acid mols. In a preferred embodiment plasmid DNA from bacterial cells are purified by precipitation with 1-4% polyethylene glycol (mol. weight of 8000) and 0.5M salt concentration The DNA is further purified by reversible binding to paramagnetic beads that are coated with amine or encapsulated carboxyl groups. The first reagent allows purification of DNA greater than 10 kb, while a second round of purification allows purification of DNA greater than 2.4 kb from a mixture of nucleic

acids 7% polyethylene glycol. Magnetic fields of about 1000 G are applied to the wells of a microtiter plate using a magnetic plate holder containing an N35 magnet for removal of paramagnetic beads following DNA purification The disclosed reagents and methods provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 2002:539860 HCAPLUS
DN 137:89428
TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads
IN McKernan, Kevin J.
PA Whitehead Institute for Biomedical Research, USA
SO PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055727	A2	20020718	WO 2002-US353	20020109 <--
	WO 2002055727	A3	20021003		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2433746	A1	20020718	CA 2002-2433746	20020109 <--
	AU 2002239826	A1	20020724	AU 2002-239826	20020109 <--
	US 20020106686	A1	20020808	US 2002-42923	20020109 <--
	EP 1349951	A2	20031008	EP 2002-705692	20020109 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 20060024701	A1	20060202	US 2005-126775	20050511 <--
PRAI	US 2001-260774P	P	20010109	<--	
	US 2002-42923	B1	20020109		
	WO 2002-US353	W	20020109		

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OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L9 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support
AB The present invention relates to a method of isolating nucleic acid from a blood sample. The method involves selectively isolating leukocytes from said sample by binding said leukocytes to a solid support containing a binding partner specific for the leukocyte, for example an antibody. The antibody can bind an antigen selected from one of more of the following: HLA-I, CD11a, CD18, CD45, CD46, CD50, CD82, CD162, CD5 and CD15 and a specific example shows a combination of CD45 and CD15. The said leukocytes are lysed in detergents to release nucleic acids which are subsequently bound to a second

solid support which is neg. charged. Kits for isolating nucleic acid from samples form further embodiments of the invention.

AN 2001:904506 HCAPLUS
DN 136:15912
TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support
IN Bergholtz, Stine; Korsnes, Lars; Andreassen, Jack
PA Dynal Biotech Asa, Norway; Jones, Elizabeth Louise
SO PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001094572	A1	20011213	WO 2001-GB2472	20010605 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
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	CA 2410888	C	20080916		
	EP 1290155	A1	20030312	EP 2001-934205	20010605 <--
	EP 1290155	B1	20060809		
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	AU 2001260507	B2	20060831	AU 2001-260507	20010605 <--
	AT 335815	T	20060915	AT 2001-934205	20010605 <--
	ES 2269399	T3	20070401	ES 2001-934205	20010605 <--
	US 20030180754	A1	20030925	US 2003-297301	20030430 <--
	US 20080293035	A1	20081127	US 2008-98411	20080404 <--
PRAI	GB 2000-13658	A	20000605	<--	
	WO 2001-GB2472	W	20010605	<--	
	US 2003-297301	B1	20030430		

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RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L9 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Solid phase technique for selectively isolating nucleic acids
AB A method of isolating target nucleic acid mols. from a solution comprising a mixture of different size nucleic acid mols., in the presence or absence of other biomols., by selectively facilitating the adsorption of a particular species of nucleic acid mol. to the functional group-coated surface of magnetically responsive paramagnetic microparticles is disclosed. Separation is accomplished by manipulating the ionic strength and polyalkylene glycol concentration of the solution to selectively precipitate, and reversibly adsorb, the target species of nucleic acid mol., characterized by a particular mol. size, to paramagnetic microparticles, the surfaces of which act as a bioaffinity adsorbent for the nucleic acids. The target nucleic acid is isolated from the starting mixture based on mol. size and through the removal of magnetic beads to which the target nucleic acid mols. have been adsorbed. The disclosed method provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high

quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 1999:736906 HCAPLUS
DN 131:334336
TI Solid phase technique for selectively isolating nucleic acids
IN McKernan, Kevin; McEwan, Paul; Morrison, William
PA Whitehead Institute for Biomedical Research, USA
SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9958664	A1	19991118	WO 1999-US10572	19990513 <--
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6534262	B1	20030318	US 1999-311317	19990513 <--
US 20030235839	A1	20031225	US 2003-346714	20030116 <--
US 20040214175	A9	20041028		
US 20060003357	A1	20060105	US 2005-129218	20050513 <--
PRAI US 1998-85480P	P	19980514	<--	
US 1999-121779P	P	19990226	<--	
US 1999-311317	A1	19990513	<--	
US 2003-346714	A3	20030116		

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OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components
AB The present invention provides a method of isolating nucleic acid from a sample, said method comprising contacting said sample with a detergent and a solid support, whereby soluble nucleic acid in said sample is bound to the support, and separating said support with bound nucleic acid from the sample. Where the method of the invention is used to isolate DNA, it may conveniently be coupled with a further step to isolate RNA from the same sample.
AN 1996:458048 HCAPLUS
DN 125:107039
OREF 125:19863a,19866a
TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components
IN Deggerdal, Arne Helge; Larsen, Frank
PA Dynal A/s, Norway; Dzieglewska, Hanna Eva
SO PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	WO 9618731	A2	19960620	WO 1995-GB2893	19951212 <--
	WO 9618731	A3	19960912		
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	AU 706211	B2	19990610		
	EP 796327	A2	19970924	EP 1995-940351	19951212 <--
	EP 796327	B1	20040728		
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	JP 3787354	B2	20060621		
	AT 272110	T	20040815	AT 1995-940351	19951212 <--
	US 20040215011	A1	20041028	US 1997-849686	19970821 <--
	US 20060058519	A1	20060316	US 2005-234001	20050923 <--
	US 7173124	B2	20070206		
	US 20070190559	A1	20070816	US 2007-671426	20070205 <--
	US 20080300396	A1	20081204	US 2008-54332	20080324 <--
	US 20090068724	A1	20090312	US 2008-130926	20080530 <--
	US 20090149646	A1	20090611	US 2008-130959	20080530 <--
PRAI	GB 1994-25138	A	19941212	<--	
	WO 1995-GB2893	W	19951212	<--	
	US 1997-849686	A1	19970821	<--	
	US 2005-234001	A1	20050923		
	US 2007-671426	B1	20070205		
	US 2008-54332	A1	20080324		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Purification of nucleic acids from solution without precipitation by binding to a solid phase
AB A method of separating polynucleotides, such as DNA, RNA and PNA, from solution by reversibly and non-specifically binding them to a solid surface, such as a magnetic microparticle, with a functional group-coated surface is disclosed. The salt and polyalkylene glycol concentration of the solution is adjusted to levels which result in polynucleotide binding to the magnetic microparticles. The magnetic microparticles with bound polynucleotides are separated from the solution and the polynucleotides are eluted from the magnetic microparticles. The method is generally applicable to large and small nucleic acids and works with crude prepns. such as cleared lysates. Material can be selectively eluted from the particles by controlling the ionic strength of the elution buffer.
AN 1996:350414 HCAPLUS
DN 125:5056
OREF 125:1147a,1150a
TI Purification of nucleic acids from solution without precipitation by binding to a solid phase
IN Hawkins, Trevor
PA Whitehead Institute for Biomedical Research, USA

```
SO   PCT Int. Appl., 38 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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PI   WO 9609379           A1    19960328    WO 1995-US11839        19950919 <--
         W:  CA, JP
         RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
     US 5705628           A     19980106    US 1994-309267         19940920 <--
     IL 115352            A     20090211    IL 1995-115352         19950919 <--
     US 5898071           A     19990427    US 1998-2412           19980102 <--
PRAI US 1994-309267       A     19940920  <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G   29    THERE ARE 29 CAPLUS RECORDS THAT CITE THIS RECORD (32 CITINGS)
RE.CNT  1     THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> d his

     (FILE 'HOME' ENTERED AT 11:18:16 ON 12 APR 2010)

     FILE 'HCAPLUS' ENTERED AT 11:20:14 ON 12 APR 2010
L1       475087 S RNA OR RIBONUCLEIC
L2       378525 S LITHIUM
L3      2207845 S BINDING OR EXTRACTION OR PURIFICATION OR SEPARATION OR ISOLAT
L4          289 S L1 AND L2 AND L3
L5          124 S L4 AND (PY<2002 OR AY<2002 OR PRY<2002)

     FILE 'STNGUIDE' ENTERED AT 11:20:21 ON 12 APR 2010

     FILE 'HCAPLUS' ENTERED AT 11:21:41 ON 12 APR 2010
L6        77588 S GUANIDINIUM OR THIOCYANATE OR ISOTHIOCYANATE
L7           89 S L5 NOT L6

     FILE 'STNGUIDE' ENTERED AT 11:21:43 ON 12 APR 2010

     FILE 'HCAPLUS' ENTERED AT 11:23:10 ON 12 APR 2010
L8       132436 S (SOLID SUPPORT) OR (SOLID PHASE)
L9            6 S L7 AND L8

     FILE 'STNGUIDE' ENTERED AT 11:23:13 ON 12 APR 2010

     FILE 'HCAPLUS' ENTERED AT 11:23:21 ON 12 APR 2010

     FILE 'STNGUIDE' ENTERED AT 11:23:23 ON 12 APR 2010

=> log hold

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FULL ESTIMATED COST                                    0.07      31.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -5.10

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:23:29 ON 12 APR 2010
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=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                     0.66       0.66

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FILE COVERS 1907 - 12 Apr 2010  VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010  (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Feb 2010

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s RNA or ribonucleic

        393838 RNA
        195494 RIBONUCLEIC
L1      475087 RNA OR RIBONUCLEIC

=> s lithium

L2      378525 LITHIUM

=> s binding or extraction or purification or separation or isolation

       1144661 BINDING
        207869 EXTRACTION
        388983 PURIFICATION
        252971 SEPARATION
        300779 ISOLATION
L3     2207845 BINDING OR EXTRACTION OR PURIFICATION OR SEPARATION OR ISOLATION

=> s l1 and l2 and l3

L4         289 L1 AND L2 AND L3

=> s l4 and (PY<2002 or AY<2002 or PRY<2002)
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       4243473 AY<2002
       3712015 PRY<2002
L5          124 L4 AND (PY<2002 OR AY<2002 OR PRY<2002)

=> file stnguide

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                     2.91       3.57

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LAST RELOADED: Apr  9, 2010 (20100409/UP).

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                     0.14       3.71

FILE 'HCAPLUS' ENTERED AT 11:21:41 ON 12 APR 2010
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FILE COVERS 1907 - 12 Apr 2010  VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010  (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Feb 2010

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2010.

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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s guanidinium or thiocyanate or isothiocyanate

          7524 GUANIDINIUM
         42962 THIOCYANATE
         29807 ISOTHIOCYANATE
L6       77588 GUANIDINIUM OR THIOCYANATE OR ISOTHIOCYANATE
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=> s 15 not 16

L7          89 L5 NOT L6

=> file stnguide

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
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FILE 'STNGUIDE' ENTERED AT 11:21:43 ON 12 APR 2010
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  9, 2010 (20100409/UP).

=> file hcaplus
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FILE 'HCAPLUS' ENTERED AT 11:23:10 ON 12 APR 2010
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FILE COVERS 1907 - 12 Apr 2010  VOL 152 ISS 16
FILE LAST UPDATED: 11 Apr 2010  (20100411/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Feb 2010

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s (solid support) or (solid phase)

       1258254 SOLID
        603476 SUPPORT
         10289 SOLID SUPPORT
               (SOLID(W)SUPPORT)
       1258254 SOLID
       2087139 PHASE
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        125173 SOLID PHASE
                (SOLID(W)PHASE)
L8      132436 (SOLID SUPPORT) OR (SOLID PHASE)

=> s l7 and l8

L9           6 L7 AND L8

=> file stnguide

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FULL ESTIMATED COST                               2.91       9.67

FILE 'STNGUIDE' ENTERED AT 11:23:13 ON 12 APR 2010
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  9, 2010 (20100409/UP).

=> d l9 1-6 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y



L9   ANSWER 1 OF 6  HCAPLUS  COPYRIGHT 2010 ACS on STN
TI   Compositions and methods for using a solid support to
     purify RNA
AB   The invention concerns a method for purifying substantially pure and
     undegraded RNA from biol. material comprising RNA,
     comprising the steps of: (a) mixing the biol. material with an RNA
     Lysing/ Binding Solution buffered at a pH of greater than about 7,
     the RNA Lysing/Binding Solution comprising an RNA
     -complexing salt; (b) contacting the mixture to a solid
     support such that nucleic acids comprising substantially
     undegraded RNA in the mixture preferentially bind to the
     solid support; (c) washing the solid
     support with a series of RNA wash solns. to remove biol.
     materials other than bound nucleic acids comprising substantially
     undegraded RNA, wherein the series of wash solns. comprises a
     first wash comprising alc. and an RNA-complexing salt at a
     concentration of at least 1 M and a second wash comprising an alc., buffer and
an
     optional chelator; and (d) preferentially eluting the bound substantially
     undegraded RNA from the solid support with
     an RNA Elution Solution in order to obtain substantially pure and
     undegraded RNA.  Reagents, methods and kits for the purification of
     RNA from biol. materials are provided.
AN   2004:80382  HCAPLUS <<LOGINID::20100412>>
DN   140:107795
TI   Compositions and methods for using a solid support to
     purify RNA
IN   Bair, Robert Jackson; Heath, Ellen M.; Meehan, Heather; Paulsen, Kim
     Elayne; Wages, John M.
PA   USA
SO   U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of U.S. Ser. No. 974,798.
     CODEN: USXXCO
DT   Patent
LA   English
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FAN.CNT 3
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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PI   US 20040019196      A1     20040129    US 2003-418194         20030416 <--
     US 7148343          B2     20061212
     US 20030073830      A1     20030417    US 2001-974798         20011012 <--
     CA 2463317          A1     20030424    CA 2001-2463317        20011012 <--
     AU 2002211719       A1     20030428    AU 2002-211719         20011012 <--
     AU 2002211719       B2     20070614
     EP 1438426          A1     20040721    EP 2001-979794         20011012 <--
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2005505305       T      20050224    JP 2003-536461         20011012 <--
     JP 3979996          B2     20070919
     AU 2004233035       A1     20041104    AU 2004-233035         20040415 <--
     AU 2004233035       B2     20090723
     CA 2522446          A1     20041104    CA 2004-2522446        20040415
     WO 2004094635       A2     20041104    WO 2004-US12033        20040415
     WO 2004094635       A3     20041216
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             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW:  BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
             SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
             TD, TG
     EP 1618194          A2     20060125    EP 2004-760008         20040415
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
     JP 2006523463       T      20061019    JP 2006-513124         20040415
     US 20050032105      A1     20050210    US 2004-909724         20040802 <--
     US 20070043216      A1     20070222    US 2006-589364         20061030 <--
PRAI US 2001-974798      A2     20011012  <--
     AU 2002-211719      A3     20011012  <--
     WO 2001-US32073     W      20011012  <--
     US 2003-418194      A      20030416
     WO 2004-US12033     W      20040415
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G   1     THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT  56    THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9   ANSWER 2 OF 6  HCAPLUS  COPYRIGHT 2010 ACS on STN
TI   Methods and kits for the purification of nucleic acids from
     bacterial cells using a single reagent containing polyethylene glycol and
     binding to paramagnetic beads
AB   The invention includes reagents and methods for the isolation of
     nucleic acids.  The reagents described herein contain a nucleic acid
precipitating
     agent and a solid phase carrier.  The reagents can
     optionally be formulated to cause the lysis of a cell.  These reagents can
     be used to isolate a target nucleic acid mol. from a cell or a solution
     containing a mixture of different size nucleic acid mols.  In a preferred
     embodiment plasmid DNA from bacterial cells are purified by precipitation with
     1-4% polyethylene glycol (mol. weight of 8000) and 0.5M salt concentration
The DNA
     is further purified by reversible binding to paramagnetic beads
```

that are coated with amine or encapsulated carboxyl groups. The first reagent allows purification of DNA greater than 10 kb, while a second round of purification allows purification of DNA greater than 2.4 kb from a mixture of nucleic acids 7% polyethylene glycol. Magnetic fields of about 1000 G are applied to the wells of a microtiter plate using a magnetic plate holder containing an N35 magnet for removal of paramagnetic beads following DNA purification The disclosed reagents and methods provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 2002:539860 HCAPLUS <<LOGINID::20100412>>
DN 137:89428
TI Methods and kits for the purification of nucleic acids from bacterial cells using a single reagent containing polyethylene glycol and binding to paramagnetic beads
IN McKernan, Kevin J.
PA Whitehead Institute for Biomedical Research, USA
SO PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055727	A2	20020718	WO 2002-US353	20020109 <--
	WO 2002055727	A3	20021003		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2433746	A1	20020718	CA 2002-2433746	20020109 <--
	AU 2002239826	A1	20020724	AU 2002-239826	20020109 <--
	US 20020106686	A1	20020808	US 2002-42923	20020109 <--
	EP 1349951	A2	20031008	EP 2002-705692	20020109 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 20060024701	A1	20060202	US 2005-126775	20050511 <--
PRAI	US 2001-260774P	P	20010109	<--	
	US 2002-42923	B1	20020109		
	WO 2002-US353	W	20020109		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support
AB The present invention relates to a method of isolating nucleic acid from a blood sample. The method involves selectively isolating leukocytes from said sample by binding said leukocytes to a solid support containing a binding partner specific for the

leukocyte, for example an antibody. The antibody can bind an antigen selected from one of more of the following: HLA-I, CD11a, CD18, CD45, CD46, CD50, CD82, CD162, CD5 and CD15 and a specific example shows a combination of CD45 and CD15. The said leukocytes are lysed in detergents to release nucleic acids which are subsequently bound to a second solid support which is neg. charged. Kits for isolating nucleic acid from samples form further embodiments of the invention.

AN 2001:904506 HCAPLUS <<LOGINID::20100412>>
DN 136:15912
TI Methods and kits for isolating nucleic acids from leukocytes by binding to antibodies on a solid support
IN Bergholtz, Stine; Korsnes, Lars; Andreassen, Jack
PA Dynal Biotech Asa, Norway; Jones, Elizabeth Louise
SO PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001094572	A1	20011213	WO 2001-GB2472	20010605 <--
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	CA 2410888	A1	20011213	CA 2001-2410888	20010605 <--
	CA 2410888	C	20080916		
	EP 1290155	A1	20030312	EP 2001-934205	20010605 <--
	EP 1290155	B1	20060809		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	AU 2001260507	B2	20060831	AU 2001-260507	20010605 <--
	AT 335815	T	20060915	AT 2001-934205	20010605 <--
	ES 2269399	T3	20070401	ES 2001-934205	20010605 <--
	US 20030180754	A1	20030925	US 2003-297301	20030430 <--
	US 20080293035	A1	20081127	US 2008-98411	20080404 <--
PRAI	GB 2000-13658	A	20000605	<--	
	WO 2001-GB2472	W	20010605	<--	
	US 2003-297301	B1	20030430		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Solid phase technique for selectively isolating nucleic acids
AB A method of isolating target nucleic acid mols. from a solution comprising a mixture of different size nucleic acid mols., in the presence or absence of other biomols., by selectively facilitating the adsorption of a particular species of nucleic acid mol. to the functional group-coated surface of magnetically responsive paramagnetic microparticles is disclosed. Separation is accomplished by manipulating the ionic strength and polyalkylene glycol concentration of the solution to selectively precipitate, and reversibly adsorb, the target
species of nucleic acid mol., characterized by a particular mol. size, to

paramagnetic microparticles, the surfaces of which act as a bioaffinity adsorbent for the nucleic acids. The target nucleic acid is isolated from the starting mixture based on mol. size and through the removal of magnetic beads to which the target nucleic acid mols. have been adsorbed. The disclosed method provides a simple, robust and readily automatable means of nucleic acid isolation and purification which produces high quality nucleic acid mols. suitable for: capillary electrophoresis, nucleotide sequencing, reverse transcription cloning the transfection, transduction or microinjection of mammalian cells, gene therapy protocols, the in vitro synthesis of RNA probes, cDNA library construction and PCR amplification.

AN 1999:736906 HCAPLUS <<LOGINID::20100412>>
DN 131:334336
TI Solid phase technique for selectively isolating nucleic acids
IN McKernan, Kevin; McEwan, Paul; Morrison, William
PA Whitehead Institute for Biomedical Research, USA
SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9958664	A1	19991118	WO 1999-US10572	19990513 <--
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6534262	B1	20030318	US 1999-311317	19990513 <--
US 20030235839	A1	20031225	US 2003-346714	20030116 <--
US 20040214175	A9	20041028		
US 20060003357	A1	20060105	US 2005-129218	20050513 <--
PRAI US 1998-85480P	P	19980514	<--	
US 1999-121779P	P	19990226	<--	
US 1999-311317	A1	19990513	<--	
US 2003-346714	A3	20030116		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components
AB The present invention provides a method of isolating nucleic acid from a sample, said method comprising contacting said sample with a detergent and a solid support, whereby soluble nucleic acid in said sample is bound to the support, and separating said support with bound nucleic acid from the sample. Where the method of the invention is used to isolate DNA, it may conveniently be coupled with a further step to isolate RNA from the same sample.
AN 1996:458048 HCAPLUS <<LOGINID::20100412>>
DN 125:107039
OREF 125:19863a,19866a
TI Isolation of nucleic acid from biological sample, method comprising nucleic acid binding to solid support then separation from support, and kit comprising detergents and other components
IN Deggerdal, Arne Helge; Larsen, Frank

PA Dynal A/s, Norway; Dzieglewska, Hanna Eva
SO PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9618731	A2	19960620	WO 1995-GB2893	19951212 <--
WO 9618731	A3	19960912		
W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2207608	A1	19960620	CA 1995-2207608	19951212 <--
CA 2207608	C	20090407		
AU 9641829	A	19960703	AU 1996-41829	19951212 <--
AU 706211	B2	19990610		
EP 796327	A2	19970924	EP 1995-940351	19951212 <--
EP 796327	B1	20040728		
R: AT, BE, CH, DE, FR, GB, IT, LI, SE				
JP 11501504	T	19990209	JP 1996-518463	19951212 <--
JP 3787354	B2	20060621		
AT 272110	T	20040815	AT 1995-940351	19951212 <--
US 20040215011	A1	20041028	US 1997-849686	19970821 <--
US 20060058519	A1	20060316	US 2005-234001	20050923 <--
US 7173124	B2	20070206		
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US 20080300396	A1	20081204	US 2008-54332	20080324 <--
US 20090068724	A1	20090312	US 2008-130926	20080530 <--
US 20090149646	A1	20090611	US 2008-130959	20080530 <--
PRAI GB 1994-25138	A	19941212 <--		
WO 1995-GB2893	W	19951212 <--		
US 1997-849686	A1	19970821 <--		
US 2005-234001	A1	20050923		
US 2007-671426	B1	20070205		
US 2008-54332	A1	20080324		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Purification of nucleic acids from solution without precipitation by binding to a solid phase
AB A method of separating polynucleotides, such as DNA, RNA and PNA, from solution by reversibly and non-specifically binding them to a solid surface, such as a magnetic microparticle, with a functional group-coated surface is disclosed. The salt and polyalkylene glycol concentration of the solution is adjusted to levels which result in polynucleotide binding to the magnetic microparticles. The magnetic microparticles with bound polynucleotides are separated from the solution and the polynucleotides are eluted from the magnetic microparticles. The method is generally applicable to large and small nucleic acids and works with crude prepns. such as cleared lysates. Material can be selectively eluted from the particles by controlling the ionic strength of the elution

buffer.
AN 1996:350414 HCAPLUS <<LOGINID::20100412>>
DN 125:5056
OREF 125:1147a,1150a
TI Purification of nucleic acids from solution without precipitation by binding to a solid phase
IN Hawkins, Trevor
PA Whitehead Institute for Biomedical Research, USA
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9609379	A1	19960328	WO 1995-US11839	19950919 <--
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5705628	A	19980106	US 1994-309267	19940920 <--
	IL 115352	A	20090211	IL 1995-115352	19950919 <--
	US 5898071	A	19990427	US 1998-2412	19980102 <--
PRAI	US 1994-309267	A	19940920 <--		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 29 THERE ARE 29 CAPLUS RECORDS THAT CITE THIS RECORD (32 CITINGS)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT